



Hurricane Irma/Hurricane Maria 2017

10/2/2017 – 1030 EDT Update

EXECUTIVE SUMMARY

- CEPD – All CEPD personnel are accounted for and safe. (Thanks to the CID/NCERT agents that assisted CEPD locate our EPA employees.) However, the humanitarian crisis – particularly in Puerto Rico – is growing, as residents in more remote areas are lacking food, water and medicine. Several patients in hospitals have reportedly died because there was no electricity to power medical equipment. Overall command of the federal response is now with the military (Generals Richard Kim & Jeffrey Buchanan). The Army Corps of Engineers has been assigned the task of assisting PREPA to rebuild Puerto Rico's electric distribution system.
- The CEPD Guaynabo office building is running on generator power. Data and voice services and cell phone service is operating. The office will officially open on Monday, 10/2.
- The CEPD office in St. Thomas, USVI has been assessed and is in the same condition as post Hurricane Irma – some minor water damage and subsequent mold. EPA will follow up with GSA on the cleaning and air monitoring from the damage done by Irma.
- The CEPD office in Vieques, PR sustained minimal damage; it has generator power (though fuel supply is limited), but no water service. The STT and Vieques offices remain officially closed until further notice.
- The MA for an additional \$25,000 on the initial activation in PR was received on 10/1.
- The list of berthing requests for EPA personnel scheduled to deploy to the USVI later during the week of 10/1 was submitted to FEMA.
- The Resource Request Forms (RRF) for the transportation of ERRS equipment to the VI, and the PR under the DW/WW MA are working their way through FEMA's WebEOC.
- Drinking and waste water assessment information provided by the REOC is being inputted to FEMA's SWEAT Model at the NRCC.
- EPA will pursue FEMA, U.S. Coast Guard, and commercial flights. We will continue to move personnel into the USVI and PR. Lodging on PR and USVI remains a challenge. We will continue to pursue berthing space on the various FEMA supported vessels arriving in PR and the USVI and commercial sources.

- Puerto Rico: **120 people** 20 people on 10/7 + 100 people on 10/15
- St Croix: **94 people** 26 people on 10/9 + 34 people on 10/14 + 34 people on 10/18
- St Thomas: **68 people** (34 people on 10/14 + 34 people on 10/18)
- Other Significant Concurrent Events.
 - New York City Marathon, 11/5/17, New York, NY
 - Macy's Thanksgiving Day Parade, 11/24-25/17, New York, NY

PUERTO RICO / U.S. VIRGIN ISLANDS CONDITIONS

US Virgin Islands (USVI):

- State of Emergency declared; National Guard activated.
- St. Thomas, St. John and Water Island: curfew is 6 PM -6 AM. St Croix: 6 PM. to 10 AM.
- Power Outages:
 - St. Thomas: 19,574 (99%)
 - St. John: 2,893 (100%)
 - St. Croix: 25,274 (90%)
- Public schools planning to open 10/9.
- Airports: St. Thomas: Open and receiving commercial aircraft. St. Croix open under special conditions (military flights and air carriers with less than 35 passengers)
- Ports:
 - St. Thomas Open: Charlotte Amalie, East Gregerie Channel, West Gregerie Channel (Crown Bay) Open with restrictions: Red Hook Bay
 - St. John Open with restrictions: Cruz Bay
 - St. Croix Open: Krause Lagoon, Limetree Bay, Frederiksted Closed: Christiansted

Puerto Rico (PR):

- **General.**
 - General Jeffrey Buchanan, DOD's primary military liaison with FEMA, toured Puerto Rico on Saturday indicated that "this is the worst I've ever seen". He

said the worst problems are in the interior of the island. “And it’s because of roads. The roads are not clear on the outside of the island, and we’re slowly working our way in. But we obviously need to get all roads cleared so we can get supplies to people who desperately need them”.

- An emergency meeting was held yesterday regarding evacuation orders related to the conditions of the Guajataka Dam and flood potential due to rains. The mayors of Isabela and Quebradillas claim that the whole population of these municipalities do not need to be evacuated. They understand that the stability of the dam is not compromised, based on information from the USACE. There are evident differences between the central government and FEMA with the mayors of these municipalities on how to manage this situation.
- PROMESA Fiscal Board decided to withdraw its judicial claim to implement a furlough in the Government of Puerto Rico and is postponing all discussions related to this subject until the next fiscal year. The Board also requested support from US Congress and the Federal government in expediting its emergency response, aid, and recovery efforts to the island.
- PR Department of Education Secretary informed that public schools shall initiate classes on Monday October 16.
- More than 10,000 Federal workers are supporting emergency response in Puerto Rico.
- 10,201 residents currently living on government shelters
- **PREPA** – PREPA reports that **95%** of their clients are without service. PREPA Director and US Army Corps of Engineers Chief, General Todd Semonite, informed their plan to reestablish electricity in the island. It is divided in 4 phases that will be implemented simultaneously: (1) install temporary generators in priority areas; (2) assure power plants’ generation; (3) repair of transmission lines, particularly those from south to northern Puerto Rico; and (4) repair of distribution system. They highlighted that the repair of the transmission and distribution system will be the most complicated task and will take time. USACE Chief was clear that there should be no expectation that energy service will be reestablished quickly. USACE Engineer Jose Sanchez will lead the efforts to reestablish electricity in Puerto Rico. PREPA Director informed that many sectors in southern and western Puerto Rico will start to be energized as the Aguirre and Costa Sur Power Plants are operational.
- **PRASA** – PRASA reports that **50%** of clients are without drinking water service.
- **Telecommunications** – Telecommunications Board reports that **67%** of telecommunications service is still disrupted. Service was reestablished from Dorado to Canóvanas, from San Juan to Caguas, Fajardo, Ceiba, Caguas, Mayaguez, Ponce, Arecibo, and Aguadilla.

- **Solid Waste Management** – Municipalities continue to report that large amounts of clandestine dumps have been established in their communities. They are concerned with public health and environmental impacts.
- **Fuel Supply** – **35%** of gasoline stations are still not operational. 714 of 1,100 gas stations are currently operational. New operational hours of gas stations have helped reduce long waiting lines that were experienced last week.
- **Airports** – Luis Munoz Marin International Airport is receiving **35** flights per day. Seven airports in Puerto Rico are now operational and one is closed. Governor informed that they expect to reach 60 daily flights this week. 11 of 12 airports open with restrictions; Mayaguez (MAZ) closed awaiting word from airport authority on re-open date.
- **Ports** – Four ports open: San Juan, Guayanilla, Salinas, Tallaboa. Six ports open with restrictions: Arecibo, Fajardo, Vieques, Culebra, Guayama, Mayaguez, Ponce, Yabucoa. Two ports closed: Guanica and Roosevelt Roads
- **Curfew** – Curfew hours in Puerto Rico are from 9:00 pm to 5:00 am. First responders and medical personnel exempt.
- **Roads** - Major state roads continue to reopen without exception in both directions; PR-2 is open from Ponce to San Juan on western side of the island.
- **Socioeconomic Issues** – Many municipalities continue to claim that aid is not reaching their communities, particularly food and water. This problem is particularly evident in the municipalities in the center of the island.

PUBLIC AFFAIRS

The PIO is Janie Acevedo, who can be reached at 469-222-7810. The Assistant PIO for Community Relations is Pat Seppi, who can be reached at 646-369-0068 and the Assistant PIO for Media Relations is Tayler Covington, who can be reached at 212-637-3662. All press inquiries are being managed through the Office of Public Affairs.

OPA did not issue a Maria update news release on October 1, 2017, but is planning to issue an update news release on October 2. We continue to provide all Region 2 staff with relevant Maria news clips and EPA news releases.

The response web site www.epa.gov/hurricane-maria is being updated daily by the Region 2 PIO and Assistant PIO for Media.

Community Involvement: Wanda Ayala has arrived in Puerto Rico and has been deployed with one of the assessment teams in the field. Additional bi-lingual Community Involvement Coordinators are positioned for deployment to Puerto Rico, as well as community relations support for the USVI assessment and cleanup teams. Elias Rodriguez is scheduled to deploy to Puerto Rico on Monday, October 2 and serve as EPA's PIO in the FEMA Joint Coordination

Center in San Juan. We are continuing to identify personnel and options for deployment of additional CICs and PIOs through October to support ground and REOC operations.

Region 2 – Hurricane Irma Management Objectives

- Protect the health and safety of EPA employees.
- Implement a re-position plan to address communications schedules, employee location information, rallying points, and a cellular and satellite communication plan.
- Coordinate with FEMA on the re-position and remobilization of EPA responders.
- Implement a re-mobilization plan.
- Minimize social, political, and economic adverse impacts.
- Maintain communication and briefing schedule with R2 senior executives and EPA Headquarters. Support a consistent communications approach agency-wide, enabling EPA to act and speak in unison during these incidents.
- Provide situation reports and other information on schedule provided by RIC.
- Provide guidance for length of work day and deployments as it pertains to this specific event.
- Coordinate logistics with deployed personnel to provide transportation options, lodging, security, ground transportation on site.
- Identify clearly defined roles for both Regions and Headquarters.
- Identify long-term recovery objectives the Agency may be requested to support, and determine resources needed to support/sustain those requests to accomplish the objectives.
- Secure NPL and removal sites. Regulated facilities and Superfund and oil sites will be surveyed post storm fall
- Identify vulnerabilities at regulated facilities
- Address any immediate hazardous substance releases or oil spills resulting from the storm's impact
- Assist state and local agencies in ensuring safety of drinking water systems.
- Monitor air quality when/if necessary in response to conditions on the ground.
- Coordinate national resources to assist the Region;
- The response will use the Region's incident specific Data Management Plan (DMP);
- In collecting, sharing, and analyzing environmental data, EPA will give primacy to data with potential human health consequences;
- EPA will work to ensure that its decision-makers have access to the data and expertise they need to make decisions based on sound science.

DEBRIS RECOVERY

Puerto Rico Debris Mission

- EPA continues to meet with FEMA, USACE, EQB, SWMA, EPA, and private contractors to discuss details for proposed plan to regional debris collection and processing centers in 6 zones throughout Puerto Rico. Contractors propose to separate and manage clean vegetative materials, mixed wastes, construction and debris, and wet debris. USACE and Contractors are proposing to use thermal reduction system (box burners) and are requesting a waiver from EQB. Contractors presented proposed

staging locations in Puerto Rico and are requesting environmental information from local and federal agencies to assure environmental compliance. EPA held a meeting on October 1 to discuss the strategy for the management of hazardous wastes and household hazardous wastes. [Next Meeting: Monday, October 2 at 2 pm]

USVI Debris Mission.

- FEMA EOC in STX has requested that EPA take part in daily Debris Management meetings. EPA will advise on air monitoring and/or sampling protocols associated with the burning of debris. However, no decision has been made on whether there will be burn operations. FEMA STX has also indicated that EPA may be requested to assist with medical waste issues resulting from the re-establishment of medical facilities on STX and STT.

AIR MONITORING

Puerto Rico. EQB is planning to conduct an assessment on the conditions of the ambient air monitoring network. The network was taken offline prior to Hurricane Maria landfall. There is no update or information on the status or damages. They will staff an assessment team once their employees are able to return to the office.

EMERGENCY RESPONSE

Daily/Cumulative Summary of Hazard Evaluations/Recovery for Hurricane Maria				
Status	Opened		Closed	
	9/30/2017	Cumulative	9/30/2017	Cumulative
Puerto Rico	0	0	0	0
U.S. Virgin Islands	1	1	0	0
Note: Open means that the target is yet to be recovered. Closed means the target was recovered, left in place, or access was denied to collect the item.				

PUERTO RICO

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/30/2017	0	0	0	0
Total to Date	0	0	0	0

U.S. VIRGIN ISLANDS

	CONTAINERS			TOTAL
	Drums (55 Gals)	Large Containers (<55 gals)	Large Containers (>55 gals)	
9/30/2017	0	0	0	0
Total to Date	0	0	0	0

SPILL/RELEASE RESPONSE

Hotline Calls as of October 1st, 2017	
Number of Maria Related Calls Received During Reporting Period	1
Total Number of Maria Related Calls to Date	6
* EPA is assessing each call through the NRC to determine appropriate response and forwarding reports to field personnel to conduct further assessments and response as needed.	

SUPERFUND NPL, SUPERFUND REMOVAL, AND OIL REMOVAL SITES

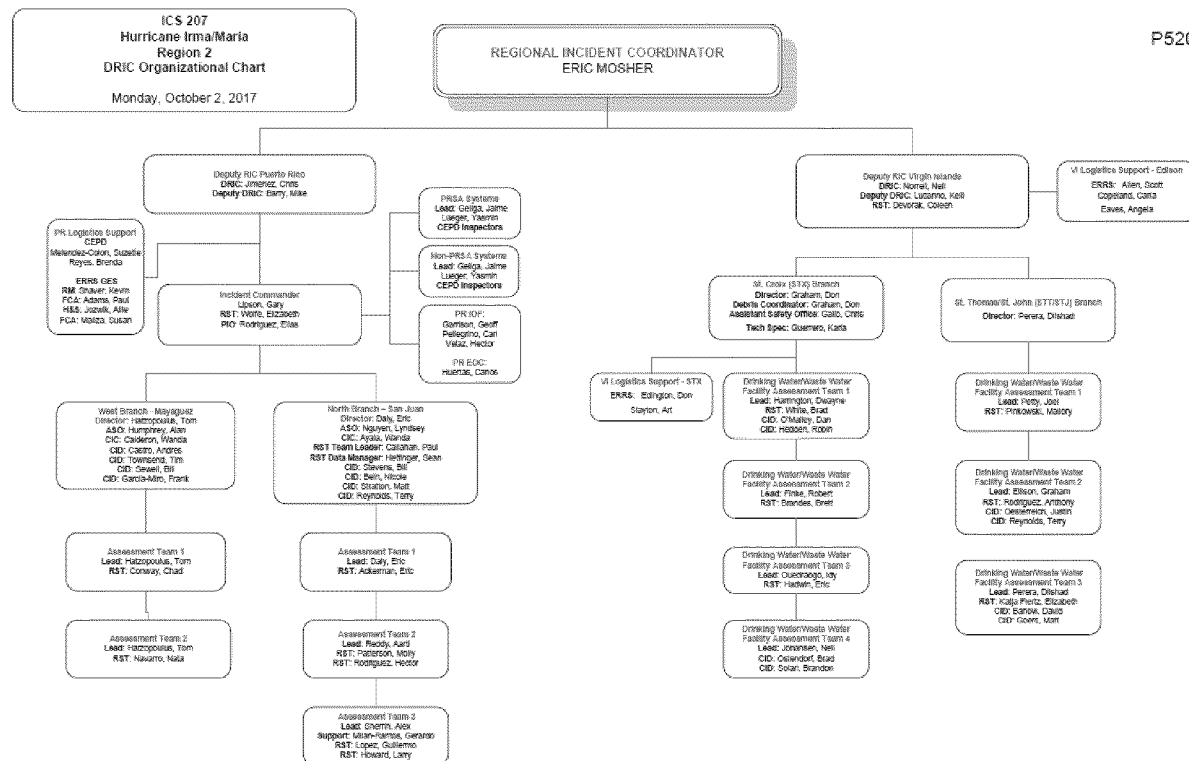
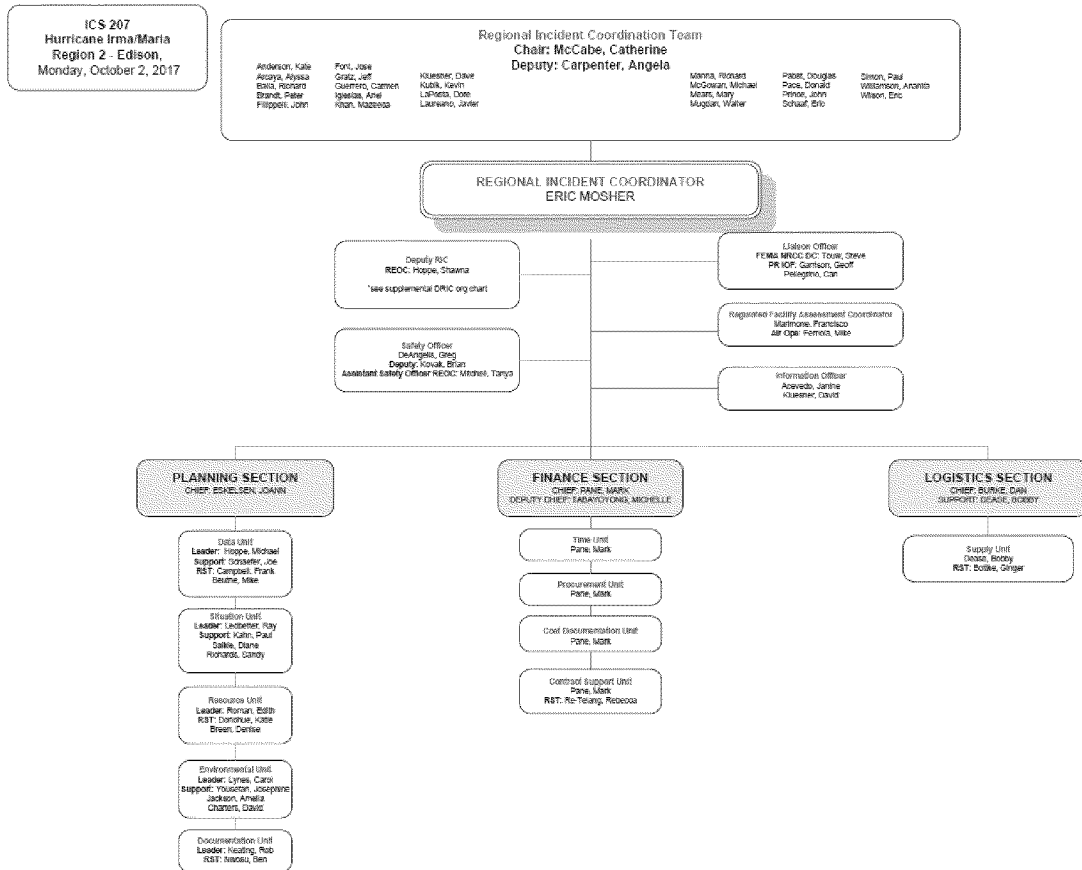
On 9/29, Vega Baja Solid Waste Disposal site was not able to be visited due to the significant road damage and debris. The team could not access the facility. On 9/30 the teams were to conduct site surveys and surveillance of the Upjohn Facility, Vega Alta Public Supply Well, and Juncos Landfill. We are waiting for the results of the 9/30 work.

SUPERFUND SITES (NPL, Removal and Oil)						
Puerto Rico						
Site	Type	Phase 1	Phase 2		Phase 3	All Phases Completed
		Post-Storm Assessment	Site Inspection Needed	Inspected	Additional Response Action	
Atlantic Fleet Weapons	NPL					
Juncos Landfill	NPL					
Upjohn Facility	NPL					
Arecibo Battery Recycling Corp.	Removal & NPL*	09/22/2017	N	09/22/2017	N	09/22/2017
Corozal Well	Removal & NPL*	09/24/2017	N	09/24/2017	N	09/24/2017
Cabo Rojo Groundwater	NPL					
Cidra Groundwater	NPL					
Dorado Groundwater	NPL					

Fibers Public Supply Wells	NPL					
Hormigas Groundwater	NPL					
Maunabo Urbano Public Wells	NPL					
Papelera Puertoriquena, Inc.	NPL	09/29/2017	N	09/29/2017	N	09/29/2017
Pesticide Warehouse 1	NPL					
Pesticide Warehouse III	NPL					
San German Groundwater	NPL					
Scorpio Recycling	NPL					
Vega Alta Public Supply Wells	NPL					
Vega Baja Solid Waste Disposal	NPL					
Guayanilla Bay Oil Spill	Oil Response					
Puma Caribe (CAPECO)	Oil Response	09/21/2017	N	09/25/2017	N	09/25/2017
U.S. VIRGIN ISLANDS						
TUTU Well Field	NPL	10/1/2017				
Crum Bay Oil Spill at WAPA Facility	Oil Response					
Cruz Bay Oil Tank	Oil Response					

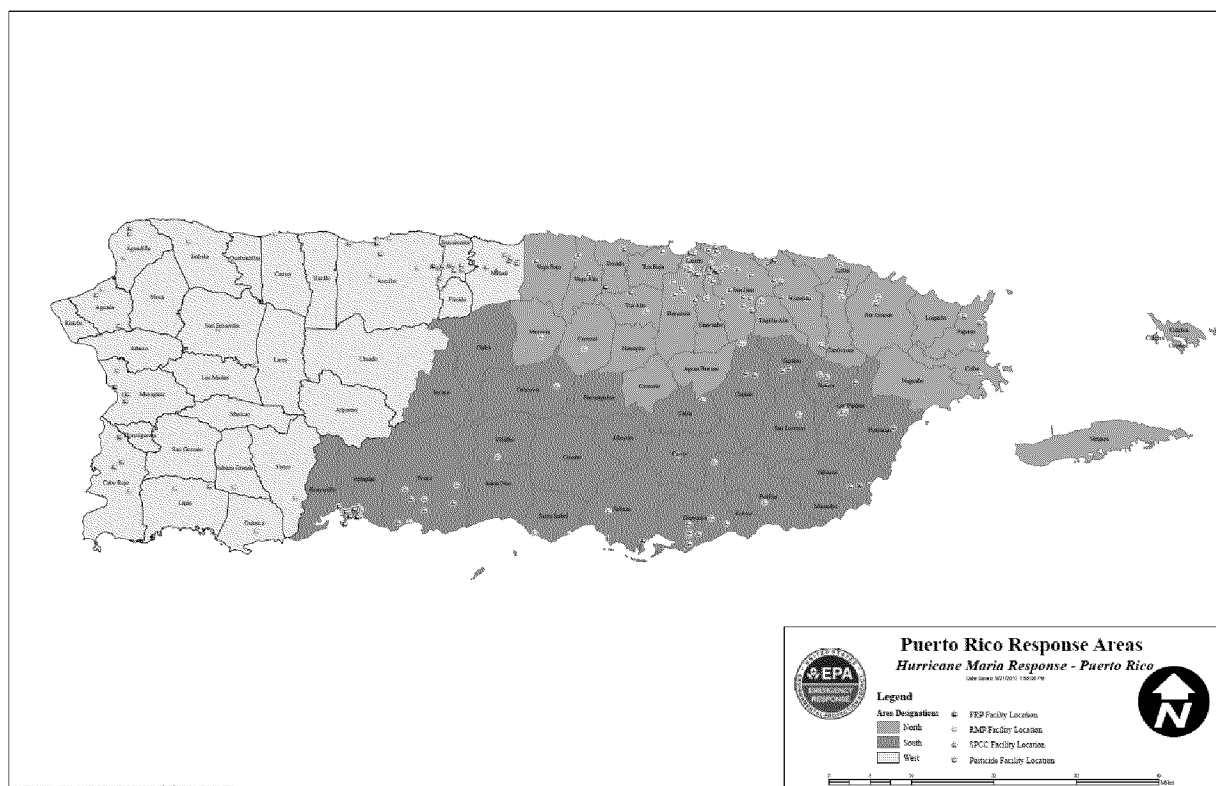
* These are Sites that have both, a Removal and Remedial program action. Only one assessment will be conducted per Site.

REGION 2 RESPONSE ORGANIZATION (ICS 207)



FIELD RESPONSE ACTIVITIES

PUERTO RICO



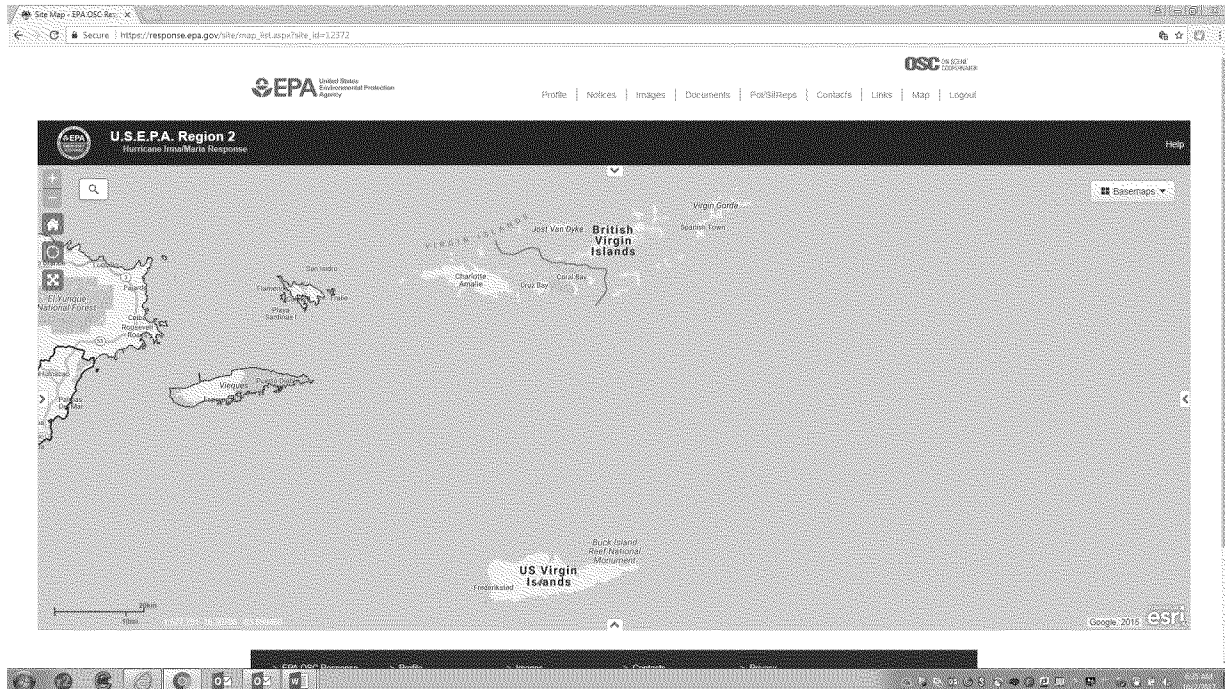
The EPA Deputy RIC for Puerto Rico and Incident Commander/Operations Section Chief has separated Puerto Rico into three Branches; the North Branch, South Branch, and West Branch. EPA and contractor resources are currently deployed in the North and West Branches. The South Branch will become more accessible once lodging becomes available. Until that happens, North Branch personnel will cover South Branch areas.

- Assessment teams comprised of OSCs, technical assistance contractors, and public affairs personnel are deploying to Puerto Rico in accordance with our EPA Region 2 Mobilization and Resource Plan. Responders arrived in both the San Juan and Mayaguez areas on 10/1.
- Available CEPD Staff are coordinating with the response command structure to provide support in other assessments, such as chemical and oil facilities, NPL, and removal sites.
- EPA has received several requests for DW/WW analytical and assessment and sampling support from USACE, PRASA, and PRDOH. REOC and IOF staff prepared and provided a cost estimate for this work. An RRF was submitted by the EPA Liaison Officer at the FEMA NRCC to perform this work and is being worked at the San Juan IOF. Work continues on developing supporting documentation and several courses of action to support the Mission Assignment that will cover all of these requests. A

conference call was held with ESF3 and Puerto Rico agencies requesting EPA support to assessing non-PRASA drinking water facility assessments that would be incorporated into this Mission Assignment.

- **Non-PRASA Water Treatment Systems:** Meeting between FEMA, USACE, HHS, DoD, EPA, and DOH to coordinate federal support to Non-PRASA drinking water facilities. In Puerto Rico, there are approximately 260 independent private and community water treatment systems that serve approximately 4% of the population. One of the recommendations is the deployment of 8 Assessment Teams of EPA and DOH staff starting Monday, October 2. Two teams will be conducting the first assessment visits to the Non-PRASA systems in the Municipalities of Caguas and San Lorenzo.
- **Small Oil Spill Responses:** EPA has received requests of support from EQB to small oil spills. EQB has used their contractors to deploy booms and pads to control these spills.
- EPA has received several requests for DW/WW analytical and assessment and sampling support from USACE, PRASA, and PRDOH. An RRF was submitted by the EPA Liaison Officer at the FEMA NRCC to perform this work and is being worked at the San Juan IOF. Work continues on developing supporting documentation and several courses of action to support the eventual Mission Assignment that will cover all of these requests. A conference call was held with ESF3 and Puerto Rico agencies requesting EPA support to assessing non-PRASA drinking water facility assessments that would be incorporated into this MA.
- Limited cell phone activity is available in the San Juan area.
- One OSC and one CEPD ORC personnel are at the FEMA IOF in San Juan and two CICs based out of San Juan are assisting with pre-deployment logistics and outreach.
- CID personnel coordinated with ESF #13 and Puerto Rico Police in preparation for operations support for the Assessment Teams.
- Initial planning was completed for a projected deployment of up to a 165-person response on or about 10/15, pending resources and lodging/berthing and transport available.
- **Critical Resources Needs/Issues:** Commercial air traffic to PR is severely limited. This is making transport of personnel and equipment needed to support the missions assigned and requested of EPA difficult. Lodging continues to be in short supply. Lodging accommodations for personnel involved in near-term missions is arranged, but future lodging remains an issue

U.S. VIRGIN ISLANDS



The EPA Deputy RIC for the U.S. Virgin Islands (USVI) and Incident Commander/Operations Section Chiefs have separated the USVI into three incident areas by island; St. Croix, St. Thomas, and St. John. EPA and contractor resources are currently deployed in St. Croix and St. Thomas. St. John is currently not accessible to EPA responders.

- **STX:**

- EPA OSCs attended a debris Management meeting at the DPW. Continuing to develop debris management plan.
- DOT requested EPA's assistance with assessing the FAA tower at the Henry E. Rohlsen Airport on STX for mold. EPA observed crews removing carpet and sheetrock in the tower but did not notice any obvious mold growth.
- EPA Drinking Water Assessment and Sampling Teams collected 12 drinking water samples on Friday, 9/29/2017. The results of the sampling are anticipated to be complete by the end of the day Saturday, 9/30/2017.
- The Ocean Systems Lab on STX is still non-operational due to lack of power. A generator to be provided to the lab by FEMA has yet to arrive.
- DPNR is not available on weekends, therefore the number of DW samples on STX will be limited. The facilities target number is 11.
- One EPA Team has been deployed to perform facility inspections. Of the 11 drinking water samples collected on Friday, 9/29, 5 samples indicated the

presence of E. coli. EPA will continue coordinating with DPNR to ensure disinfection measures are taken at all affected locations.

- **Total Public Water Systems on St Croix sampled to date = 66**
- **Total number of samples to date= 75**
- **Total systems assessed to date = 101**
- **Total number of systems with positive E. coli results = 12**
- **Total number of systems resampled after positive E. coli = 12**
- **Total number of systems with negative E. coli results after resampling = 12**

- **STT:**

- EPA met with the DPNR Commissioner to discuss upcoming activities in STT and STJ. The DPNR requested that EPA not take any DW samples on STT or STJ until Wednesday, 10/4, at the earliest. The Commissioner would like the opportunity to assign appropriate DPNR staff to assist in the sample collection and prioritize facilities.
- EPA, WAPA and the USCG met on-site at Krum Bay to discuss the oil spill and the WAPA water intakes. The oil is coming from partially sunken vessels. The USCG and will work closely with WAPA during the removal of sunken vessels. The water intakes are currently boomed and WAPA takes samples of the DW supply regularly. To date, sample analysis has indicated the water system has not been impacted by the spill.
- On 10/2, EPA will conduct fixed facility assessments on STT.

- **EPA and Contractor Personnel Currently in the USVI:**

- EPA: 18
- RST: 6
- ERRS: 2
- Total: 26

- **Critical Resource Needs/Issues:** Commercial air traffic to the USVI is severely limited. This is making transport of personnel and equipment needed to support the missions assigned and requested of EPA difficult. Requests for transport of personnel and equipment have been made through the proper channels at the NRCC.

REGION 2 REGIONAL EMERGENCY OPERATIONS CENTER (REOC)

- The REOC is working with the ERRD on prioritization of the Sites. EPA personnel began assessments of the prioritized Sites on 9/28.

AGENCY COORDINATION

Region 2 has one rep to staff the ESF-10 desk in the FEMA NRCC in Washington D.C. EPA has an OSC in the VITEMA/FEMA EOC bunker in St. Croix.

Environmental Response Management Application (ERMA). NOAA supports an ERMA viewer for both EPA Region 2 and the U.S Coast Guard. Aerial photos are available through the following link.

<https://erma.noaa.gov/caribbean/erma.html#/layers=3+36619+36620+36611+36618&x=-65.62791&y=18.14726&z=9&panel=layer>

U. S. Coast Guard Air/Flight Support. EPA Air/Flight Support will coordinate through USCG Seventh District Miami office resources unit for both Clearwater and Miami USCG air stations. Currently there is one flight/day to SJU from Miami. EPA is seeking an opportunity to move water and hazmat/oil teams into the U.S. Caribbean. EPA will submit requests for transportation as part of the ongoing queue.

DRINKING WATER / WASTEWATER

Puerto Rico

Drinking Water and Wastewater Assessments (September 30, 2017)		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	0	4
On-Site WW Assessments	0	8

U.S. Virgin Islands

Drinking Water and Wastewater Assessments (September 30, 2017)		
Assessment Types	Daily Assessments	Total Assessments
On-Site DW Assessments	8	48
On-Site WW Assessments	0	0

REGULATED FACILITIES

Puerto Rico

Facility Type	Sites Identified	Pre-Storm Remote Assessment	Post Storm Remote Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	56	56*	44^	0	0
FRP	22	22*	10^	2	2
SPCC (non-FRP)	232 [#]	232 ^{#*}	4 [^]	0	0
Total	310 [#]	310 [#]	58 [^]	0	0
* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.					
^ Based on Post-Hurricane oil spill/chemical release/damage assessment					

email and phone calls.	
# There is no SPCC submission or de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database.	

U.S. Virgin Islands

Facility Type	Sites Identified	Pre-Storm Assessment	Post Storm Assessment	Post Storm Field Assessment	Follow-up Action Required
RMP	1	1*	1^	0	0
FRP	6	6*	5^	1	0
SPCC (non-FRP)	57 [#]	57 ^{#*}	1^	1	1
Total	64 [#]	64 [#]	7^	0	0
* Pre-Hurricane email requested facilities to self-identify any pre-existing compromised conditions (construction at process areas, tank maintenance, etc.). No facilities reported pre-existing compromised conditions.					
^ Based on Post-Hurricane oil spill/chemical release/damage assessment email and phone calls.					
# There is no SPCC submission no de-registration requirement. This number reflects the number of known non-FRP SPCC facilities indicated as "active" in the Oil Database.					

The RFT is continuing efforts to directly contact significant RMP, FRP, and SPCC companies that have not yet responded to the post-storm assessment via email or by phone. Several significant RMP, FRP, and SPCC companies in PR and the USVI, such as Puma, PRASA, Total, and WAPA have preliminarily reported no damage to oil, chemical, or flammable operations.

The RFT, in coordination with the Regional Emergency Operations Center (REOC), continues to provide effective compliance assistance to facilities that experienced spills/releases, potential spills/releases, and lost containers. The RFT is providing compliance assistance to seven RMP, FRP, and/or SPCC facilities that have reported minor spills or releases. Compliance assistance efforts are coordinated with the Regional Emergency Operations Center. Information obtained by the RFT regarding these spill/releases have been shared with Operations for upcoming on-site evaluation by field assessment teams. The RFT will remain in contact with these facilities until their spills/releases are resolved.

The RFT is assisting Operations and the Data Team by providing updated RMP, FRP, and SPCC targeting information for upcoming field assessments. Additionally, the RFT is using various EPA databases to provide regulatory history and other facility-specific information when requested.

The Regulated Facility Assessment Coordinator (RFAC) continues to coordinate damage assessment and field assessment referral information with other R2 inspection programs working in UST, Federal Facilities, RCRA, CAA, and NPDES. The UST program remains in-

touch with DPNR and EQB UST program managers, and continues to provide updates on gas stations in the USVI and PR. The Federal Facilities Coordinator has been following up with federal facilities in PR and the USVI, and is periodically updating the RFAC as appropriate.

EPA RESOURCES AS OF 10/01/2017

Personnel	EPA Edison, NJ NYC, CEPD	FEMA NRCC, DC	San Juan, Puerto Rico*	Mayaguez, Puerto Rico	USVI Deployments*	Totals
EPA	50	1	28	7	18	104
START/ RST	8	0	8	2	6	24
ERRS	0	0	0	0	2	2
Other Contractors	0	0	0	0	0	0
Totals	58	1	36	9	26	130

*Number includes personnel working at IOF, EOC, CEPD field inspectors.

LONG RANGE PLANNING

- Hurricane Irma Recovery Update.** In terms of recovery Mission Assignments (MAs), Region 2 is working with FEMA on developing a short term (30 day) Recovery MA for Hurricanes Irma and Maria. Since the NDRF has not yet been activated, the first MA will be supported by the National Response Coordination Center (NRCC) authority to pre-stage RSF coordinators and partners for the initial data gathering and recovery planning work.

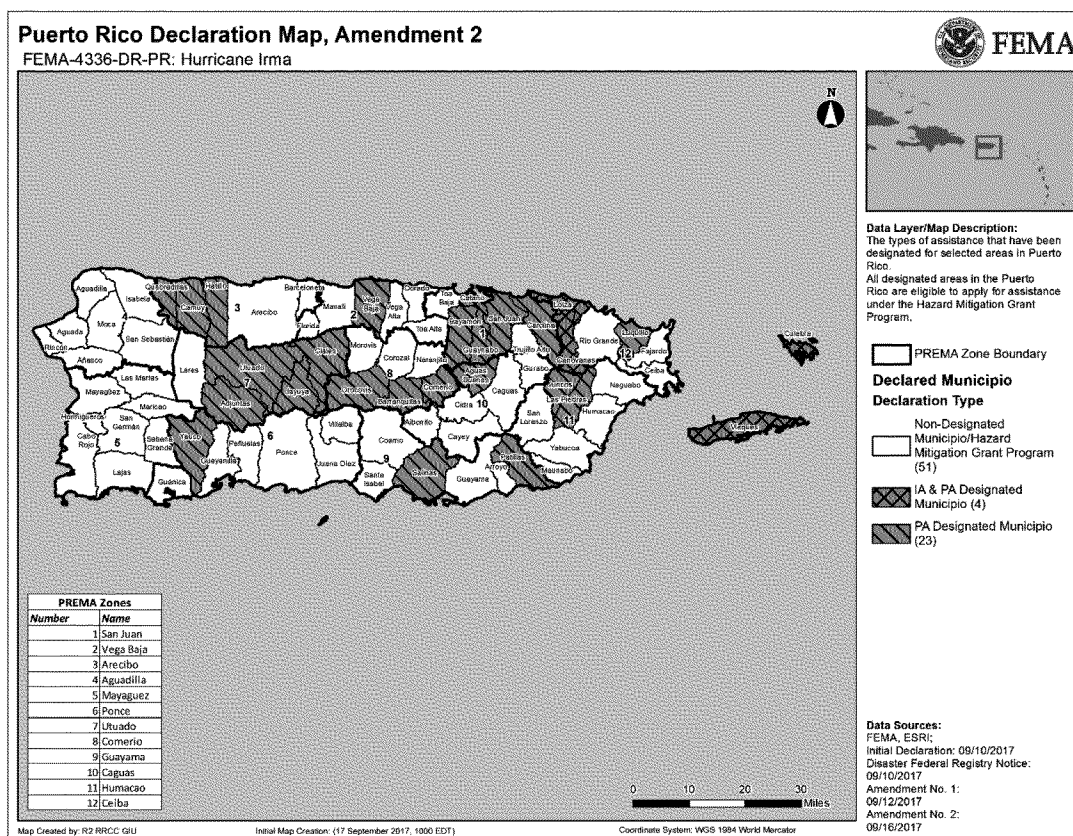
DECLARATIONS FOR HURRICANE IRMA

Puerto Rico.

Emergency Declaration FEMA-3384-EM effective September 5. Assistance is for all 78 municipalities in the Commonwealth of PR. The Governor of Puerto Rico requested a disaster declaration 9/8.

Disaster Declaration FEMA-4336-DR effective September 9. Declared areas only include Culebra and Vieques. On 9/13 ten additional municipalities in Puerto Rico were added to the major declaration, and are now eligible for work under any DFA MA's that we receive. The municipalities are: Adjuntas, Canovanas, Carolina, Guaynabo, Juncos, Loiza, Luquillo, Orocovis, Patillas, and Utuado.

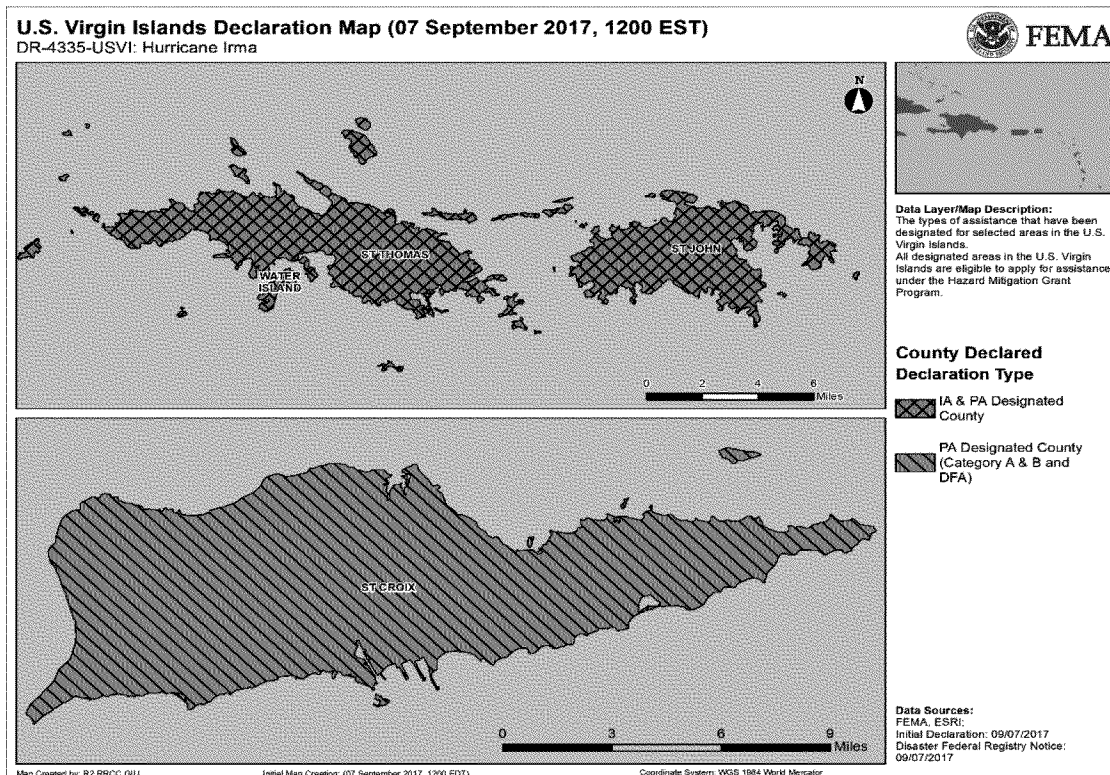
On 9/15, fifteen additional municipalities were added to the major declaration and are now eligible for Public Assistance. The municipalities are: Aguas Buenas, Barranquitas, Bayamón, Camuy, Cataño, Ciales, Comerío, Hatillo, Jayuya, Las Piedras, Quebradillas, Salinas, San Juan, Vega Baja, and Yauco.



U.S. Virgin Islands.

Disaster Declaration FEMA-4335-DR effective September 7, 2017. St. Thomas and St. John approved for Individual Assistance, all islands eligible for Public Assistance and the Hazard Mitigation Grant Program.

Emergency Declaration FEMA-3383-EM effective September 5. Assistance is for all islands in the Territory of the USVI.



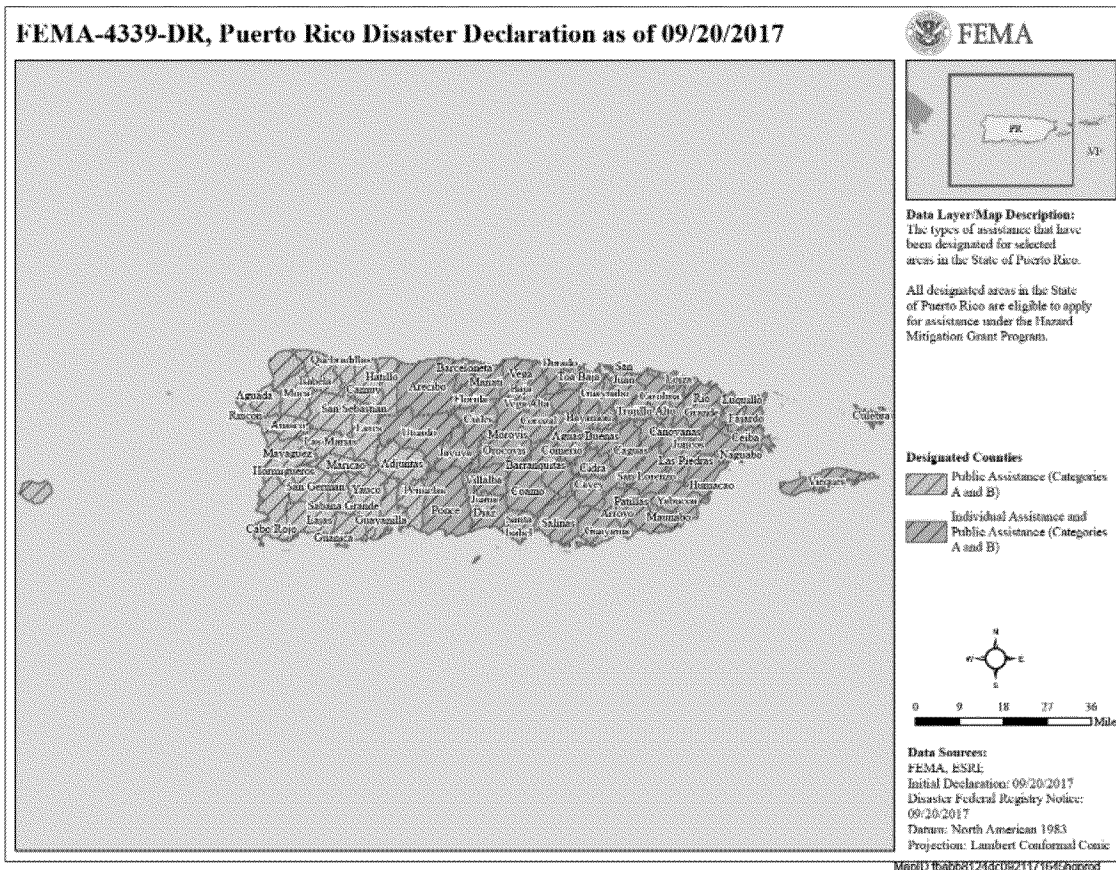
DECLARATIONS FOR HURRICANE MARIA

Puerto Rico.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3391-EM for Puerto Rico.

On 9/20, The President has signed a Disaster Declaration FEMA-4339-DR for Puerto Rico.

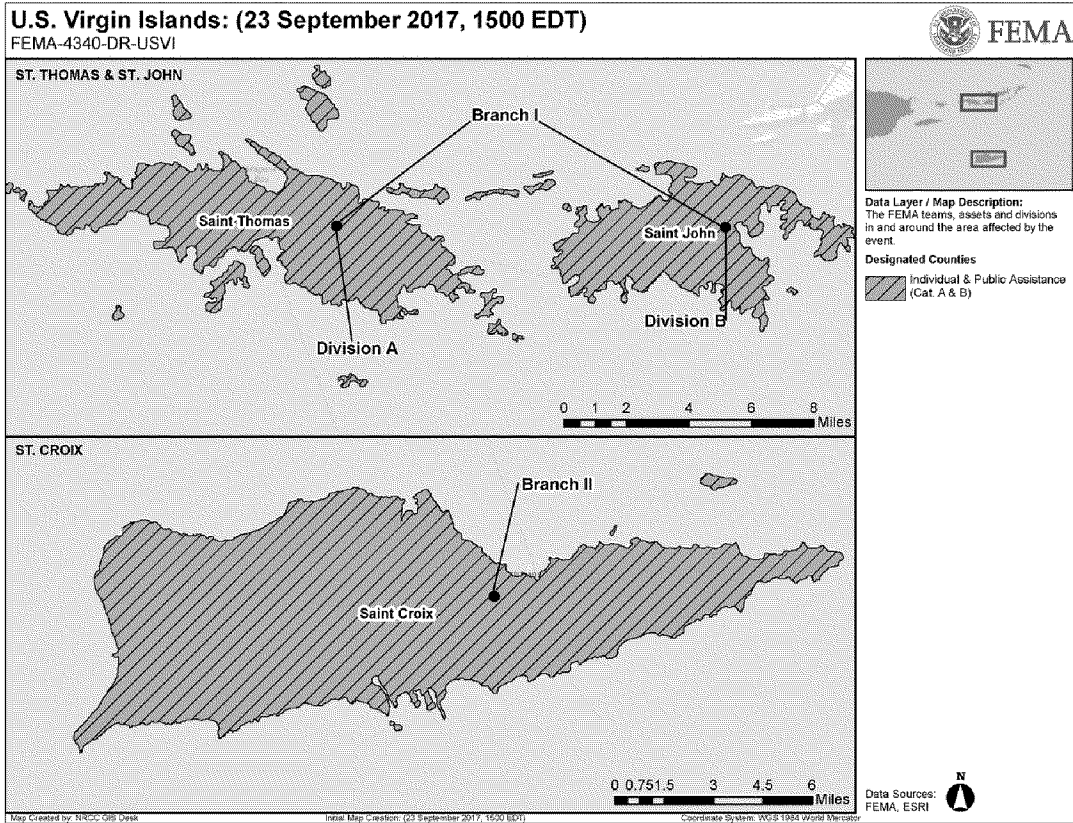
The White House initial statement covers 54 municipalities. The municipalities included in the disaster declaration are: Aguas Buenas, Aibonito, Arecibo, Arroyo, Barceloneta, Barranquitas, Bayamón, Caguas, Canóvanas, Carolina, Cataño, Cayey, Ceiba, Ciales, Cidra, Coamo, Comerio, Corozal, Culebra, Dorado, Fajardo, Florida, Guayama, Guaynabo, Gurabo, Humacao, Jayuya, Juana Díaz, Juncos, Las Piedras, Loíza, Luquillo, Manati, Maunabo, Morovis, Naguabo, Naranjito, Orocovi, Patillas, Ponce, Rio Grande, Salinas, San Juan, San Lorenzo, Santa Isabel, Toa Baja, Toa Alta, Trujillo Alto, Utuado, Vega Alta, Vega Baja, Vieques, Villalba, Yabucoa.



U.S. Virgin Islands.

Emergency Declaration. The President has signed Emergency Declaration FEMA-3390-EM for the Territory of the U.S. Virgin Islands for Hurricane Maria.

On 9/20, The President has signed a Disaster Declaration FEMA-4340-DR for the Territory of the U.S. Virgin Islands for Hurricane Maria.



FUNDING FOR IRMA AND MARIA

Mission Assignment Number	Purpose	Start Date	End Date	Total Amount	Indirect Costs	Amt. Available	Daily Burn Rate	Used	Balance
4335DR-VI-EPA-01 (X06)	EPA to FEMA R2 RRCC (Colts Neck, NJ) and FEMA NRCC (Washington, DC)	09/07/17	10/07/17	\$100,000	\$10,466	\$89,534	\$1,500	\$45,260	\$44,274
4335DR-VI-EPA-06 (X12)	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA & NRA Teams and other coordination venues	09/02/17	10/13/17	\$2,000,000	\$209,329	\$1,790,671	\$57,000	\$982,246	\$808,425
4336DR-PR-EPA-01 (X10)	EPA to FEMA RRCC. Funding for EPA command centers is authorized.	09/10/17	10/10/17	\$100,000	\$10,466	\$89,534	\$3,000	\$72,421	\$17,113
4336DR-PR-EPA-02 (X15)	Assess oil & hazmat releases, contaminated	09/09/17	10/31/17	\$1,008,000	\$105,502	\$902,498	\$26,000	\$423,455	\$479,043

	debris & other environmental events in PR								
4335DR-VI-EPA-02 (X07)	Assess oil & hazmat releases, contaminated debris & other environmental events in VI	09/07/17	10/31/17	\$1,008,000	\$105,502	\$902,498	\$35,000	\$630,820	\$271,678
4335DR-VI-EPA-04 (X11)	Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in the VI	09/13/17	10/13/17	\$10,000,000	\$1,046,646	\$8,953,354	\$26,000	\$300,317	\$8,653,037
4339DR-PR-EPA-03 (X16)	Removal, cleanup and disposal of oil & hazmat; collect and dispose of HHW; monitor immediate threats to public H&S and the environment in PR	09/28/17	10/30/17	\$10,000,000	\$1,046,646	\$8,953,354	\$0	\$7,515	\$8,945,839
VI-17090102-EPA-01 (X03)	EPA to FEMA R2 RRCC (Colts Neck, NJ)	09/02/17	09/11/17	\$10,000	\$1,046	\$8,954	\$0	\$8,954	\$0
PR-17090102-EPA-01 (X05)	EPA to FEMA R2 RRC and other coordination venues as necessary	09/01/17	09/11/17	\$20,000	\$2,093	\$17,907	\$0	\$17,907	\$0
3384EM-PR-EPA-01 (X04)	EPA to FEMA RRCC, JFO, EPA REOC, State EOC, PDA and NRA Teams and other coordination venues	09/06/17	09/16/17	\$75,000	\$7,850	\$67,150	\$0	\$64,800	\$2,350
Grand Total						\$21,775,454	N/A	\$2,553,695	\$19,221,759

FUEL WAIVERS, ORDERS, AND NO ACTION ASSURANCES

- On 9/26 EPA approved a request from PR for an emergency fuel waiver to minimize disruptions of the supply of diesel fuel for mobile nonroad generators and pumps used for emergency purposes. Waiver expires on 10/15/17. Waiver allows sale, distribution,

and use of heating oil and marine fuel designated for use in Emission Control Areas (ECA marine fuel) that exceed the 15 parts per million (ppm) sulfur standard if the fuel meets certain conditions. EPA and DOE are actively monitoring the fuel supply situation

- On 9/27 EPA HQ issued an amended No Action Assurance (NAA) concerning the importation, sale, donation or distribution of mobile power generators in Puerto Rico to increase the number of generators available for use during the recovery from the devastation of Hurricane Maria. The NAA supersedes one issued by EPA on 9/22 and covers two categories of mobile power generators. The NAA allows the import and sale of mobile power generators that, while not otherwise legal for import and sale in PR, satisfy air pollution emissions standards that are similar to current EPA standards; and also allows for the import and use of other mobile power generators that do not meet standards similar to current EPA standards, but only if, among other things, they are removed from service and not operated whatsoever in Puerto Rico after 3/31/18.
- On 9/27 EPA HQ issued an essentially identical NAA concerning the importation, sale, donation or distribution of mobile power generators in the U.S. Virgin Islands.
- On 9/23 EPA Region 2 issued an order to FEMA and DOD allowing them to install and operate temporary water treatment units to provide the public in the USVI with drinking water in areas where the existing public water system is not operational. The order establishes certain requirements relating to the use of the temporary systems. The order expires on 10/8/17. EPA is in discussions with DoD about replacing the order with a letter.
- On 10/29 EPA Region 2 approved a request from Lilly del Caribe, Inc. for a 30-day extension of the 90-day limit on the accumulation of hazardous waste on-site. Such an extension is permitted under EPA's RCRA regulations where necessary "due to unforeseen, temporary, and uncontrollable circumstances." Lilly del Caribe informed EPA that because of impacts from the hurricanes, it is currently not possible to make hazardous waste shipments out of Puerto Rico.

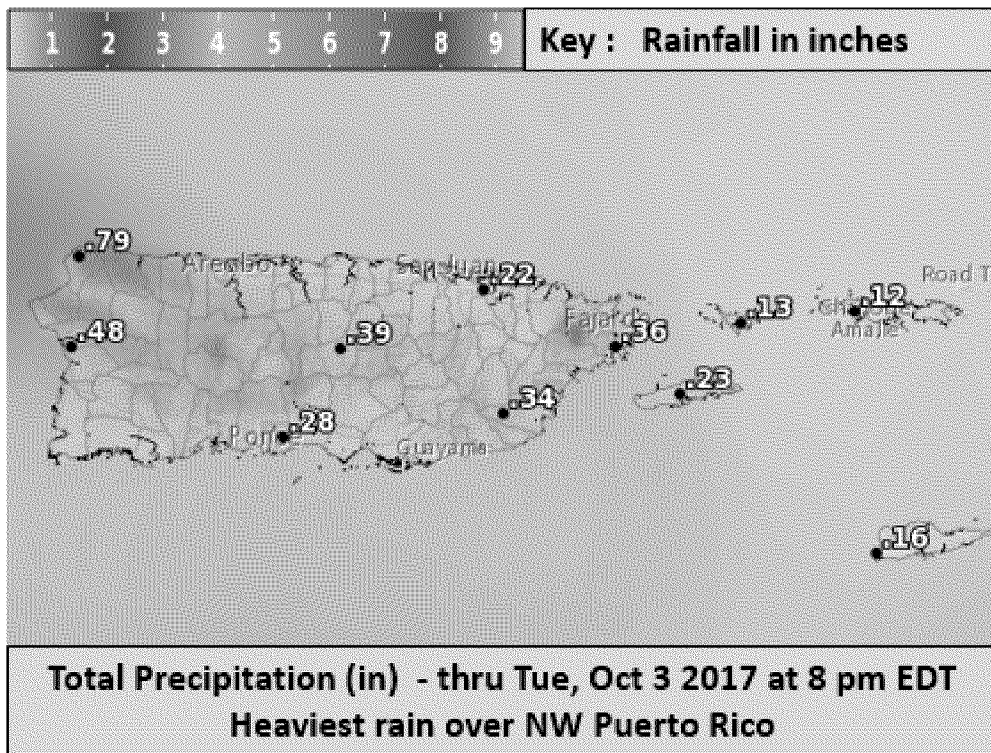
POSSIBLE UPCOMING LEGAL ACTIONS

- EPA is preparing to issue a No Action Assurance to Merck, Sharp & Dohme Corp. to enable use of four emergency generators located at its Las Piedras, Puerto Rico facility.

ADDITIONAL THREATS TO THE U.S. CARIBBEAN.

- **Current Weather.** Drier air pushes into the region 10/2 into 10/3 making for coverage of thunderstorm activity to be fairly limited, and mainly confined to sea-breeze activity (especially NW Puerto Rico). Additional moderate to heavy rainfall moves towards the Virgin Islands and Puerto Rico by 10/4, with increasing rain chances and coverage

expected through 10/6.



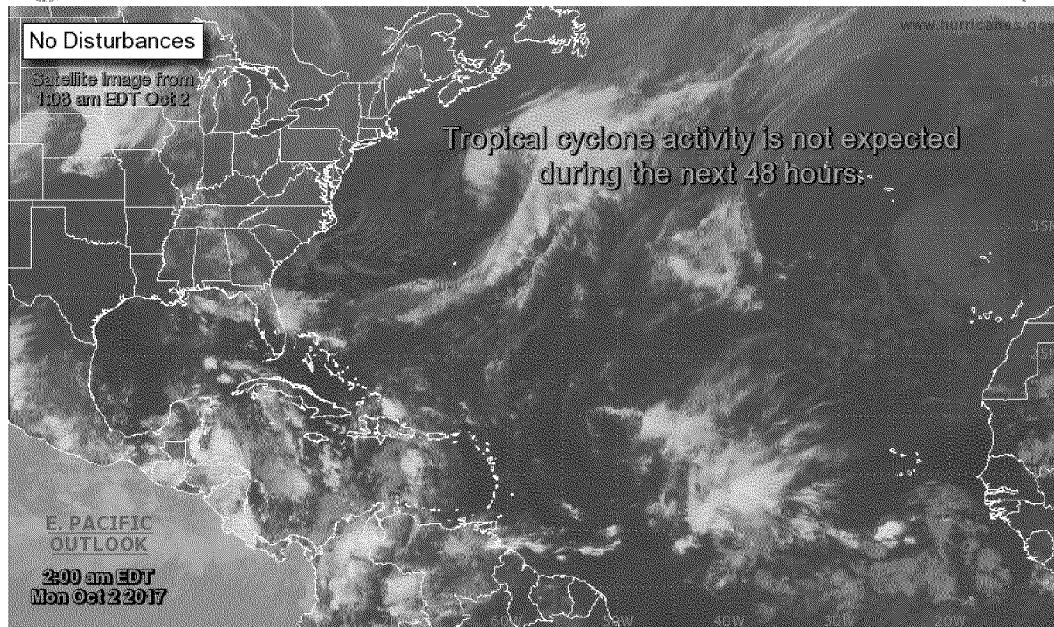
FUTURE WEATHER OUTLOOK.

- No weather systems of interest to the U.S. Caribbean for the next 48 hours.



Two-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida

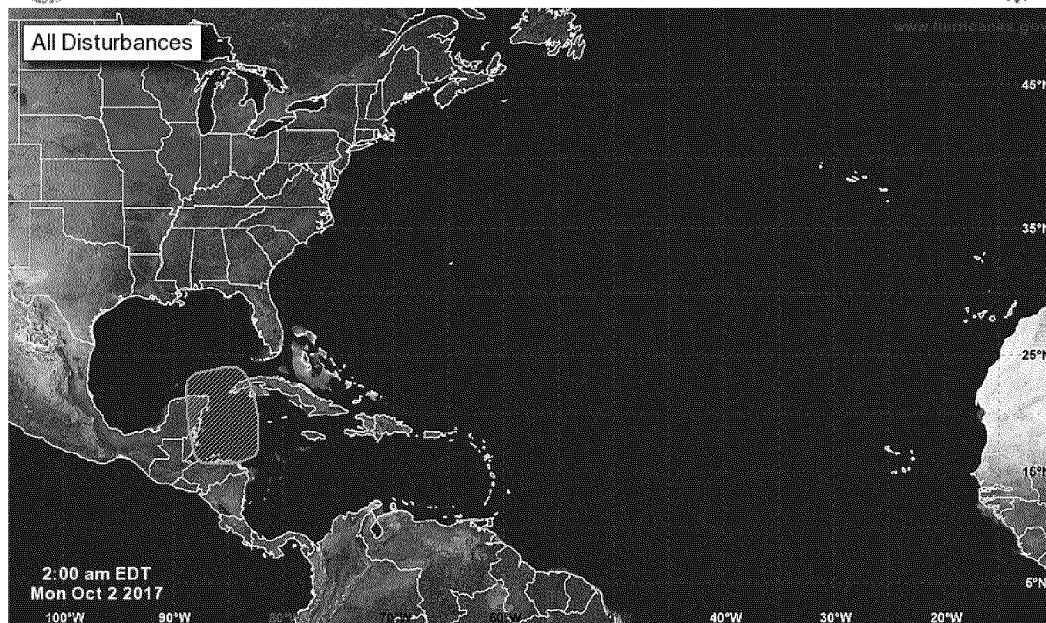


Current Disturbances and Two-Day Cyclone Formation Chance: ☒ < 40% ☒ 40-60% ☒ > 60%
Tropical or Sub-Tropical Cyclone: ○ Depression ⦿ Storm ⦿ Hurricane
⦿ Post-Tropical Cyclone × Remnants



Five-Day Graphical Tropical Weather Outlook

National Hurricane Center Miami, Florida



Current Disturbances and Five-Day Cyclone Formation Chance: ☒ < 40% ☒ 40-60% ☒ > 60%
Tropical or Sub-Tropical Cyclone: ○ Depression ⦿ Storm ⦿ Hurricane
⦿ Post-Tropical Cyclone × Remnants